

William A Banks

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

536
papers

35,477
citations

98
h-index

165
g-index

567
ext. papers

39,733
ext. citations

5.6
avg, IF

7.85
L-index

#	Paper	IF	Citations
536	Leptin enters the brain by a saturable system independent of insulin. <i>Peptides</i> , 1996 , 17, 305-11	3.8	1022
535	Transport of brain-derived neurotrophic factor across the blood-brain barrier. <i>Neuropharmacology</i> , 1998 , 37, 1553-61	5.5	976
534	Ghrelin controls hippocampal spine synapse density and memory performance. <i>Nature Neuroscience</i> , 2006 , 9, 381-8	25.5	645
533	Glucagon-like peptide-1 receptor is involved in learning and neuroprotection. <i>Nature Medicine</i> , 2003 , 9, 1173-9	50.5	606
532	Passage of cytokines across the blood-brain barrier. <i>NeuroImmunoModulation</i> , 1995 , 2, 241-8	2.5	544
531	Extent and direction of ghrelin transport across the blood-brain barrier is determined by its unique primary structure. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002 , 302, 822-7	4.7	536
530	From blood-brain barrier to blood-brain interface: new opportunities for CNS drug delivery. <i>Nature Reviews Drug Discovery</i> , 2016 , 15, 275-92	64.1	534
529	Murine tumor necrosis factor alpha is transported from blood to brain in the mouse. <i>Journal of Neuroimmunology</i> , 1993 , 47, 169-76	3.5	482
528	Brain-immune communication pathways. <i>Brain, Behavior, and Immunity</i> , 2007 , 21, 727-35	16.6	418
527	Triglycerides induce leptin resistance at the blood-brain barrier. <i>Diabetes</i> , 2004 , 53, 1253-60	0.9	386
526	Characteristics of compounds that cross the blood-brain barrier. <i>BMC Neurology</i> , 2009 , 9 Suppl 1, S3	3.1	378
525	Strategies to advance translational research into brain barriers. <i>Lancet Neurology</i> , 2008 , 7, 84-96	24.1	370
524	Blood-brain barrier transport of cytokines: a mechanism for neuropathology. <i>Current Pharmaceutical Design</i> , 2005 , 11, 973-84	3.3	357
523	The blood-brain barrier and immune function and dysfunction. <i>Neurobiology of Disease</i> , 2010 , 37, 26-32	7.5	355
522	The source of cerebral insulin. <i>European Journal of Pharmacology</i> , 2004 , 490, 5-12	5.3	353
521	Penetration of interleukin-6 across the murine blood-brain barrier. <i>Neuroscience Letters</i> , 1994 , 179, 53-6	3.3	353
520	Plasma exosomal β synuclein is likely CNS-derived and increased in Parkinson's disease. <i>Acta Neuropathologica</i> , 2014 , 128, 639-650	14.3	348

519	Clinical depression and inflammatory risk markers for coronary heart disease. <i>American Journal of Cardiology</i> , 2002 , 90, 1279-83	3	345
518	The antioxidants alpha-lipoic acid and N-acetylcysteine reverse memory impairment and brain oxidative stress in aged SAMP8 mice. <i>Journal of Neurochemistry</i> , 2003 , 84, 1173-83	6	342
517	Insulin in the brain: there and back again. <i>Pharmacology & Therapeutics</i> , 2012 , 136, 82-93	13.9	340
516	Blood-brain barrier dysfunction as a cause and consequence of Alzheimer's disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 1500-13	7.3	339
515	Bidirectional transport of interleukin-1 alpha across the blood-brain barrier. <i>Brain Research Bulletin</i> , 1989 , 23, 433-7	3.9	316
514	Animal-assisted therapy and loneliness in nursing homes: use of robotic versus living dogs. <i>Journal of the American Medical Directors Association</i> , 2008 , 9, 173-7	5.9	299
513	Obesity and hypertriglyceridemia produce cognitive impairment. <i>Endocrinology</i> , 2008 , 149, 2628-36	4.8	278
512	Lipopolysaccharide-induced blood-brain barrier disruption: roles of cyclooxygenase, oxidative stress, neuroinflammation, and elements of the neurovascular unit. <i>Journal of Neuroinflammation</i> , 2015 , 12, 223	10.1	270
511	Impaired transport of leptin across the blood-brain barrier in obesity. <i>Peptides</i> , 1999 , 20, 1341-5	3.8	270
510	Peptides and the blood-brain barrier: lipophilicity as a predictor of permeability. <i>Brain Research Bulletin</i> , 1985 , 15, 287-92	3.9	265
509	Macrophage exosomes as natural nanocarriers for protein delivery to inflamed brain. <i>Biomaterials</i> , 2017 , 142, 1-12	15.6	252
508	Differential permeability of the blood-brain barrier to two pancreatic peptides: insulin and amylin. <i>Peptides</i> , 1998 , 19, 883-9	3.8	248
507	Effects of leptin on memory processing. <i>Peptides</i> , 2006 , 27, 1420-5	3.8	247
506	Transport of insulin across the blood-brain barrier: saturability at euglycemic doses of insulin. <i>Peptides</i> , 1997 , 18, 1423-9	3.8	237
505	Role of the immune system in HIV-associated neuroinflammation and neurocognitive implications. <i>Brain, Behavior, and Immunity</i> , 2015 , 45, 1-12	16.6	215
504	Minimal penetration of lipopolysaccharide across the murine blood-brain barrier. <i>Brain, Behavior, and Immunity</i> , 2010 , 24, 102-9	16.6	210
503	Reduction of amyloid load and cerebral damage in a transgenic mouse model of Alzheimer's disease by treatment with a beta-sheet breaker peptide. <i>FASEB Journal</i> , 2002 , 16, 860-2	0.9	202
502	Obesity-prone rats have normal blood-brain barrier transport but defective central leptin signaling before obesity onset. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 286, R143-50	3.2	200

501	Characterization of short isoforms of the leptin receptor in rat cerebral microvessels and of brain uptake of leptin in mouse models of obesity. <i>Endocrinology</i> , 2002 , 143, 775-83	4.8	199
500	Pathways linking depression, adiposity, and inflammatory markers in healthy young adults. <i>Brain, Behavior, and Immunity</i> , 2003 , 17, 276-85	16.6	198
499	Prevention of ischemia-induced death of hippocampal neurons by pituitary adenylate cyclase activating polypeptide. <i>Brain Research</i> , 1996 , 736, 280-6	3.7	196
498	Release of cytokines by brain endothelial cells: A polarized response to lipopolysaccharide. <i>Brain, Behavior, and Immunity</i> , 2006 , 20, 449-55	16.6	193
497	The effects of animal-assisted therapy on loneliness in an elderly population in long-term care facilities. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2002 , 57, M428-32	6.4	185
496	Effect of LPS on the permeability of the blood-brain barrier to insulin. <i>Brain Research</i> , 2001 , 896, 36-42	3.7	180
495	Lipopolysaccharide alters the blood-brain barrier transport of amyloid beta protein: a mechanism for inflammation in the progression of Alzheimer's disease. <i>Brain, Behavior, and Immunity</i> , 2009 , 23, 507-17	16.6	179
494	Permeability of the blood-brain and blood-spinal cord barriers to interferons. <i>Journal of Neuroimmunology</i> , 1997 , 76, 105-11	3.5	174
493	Selective, physiological transport of insulin across the blood-brain barrier: novel demonstration by species-specific radioimmunoassays. <i>Peptides</i> , 1997 , 18, 1257-62	3.8	170
492	Cytokine and chemokine responses in serum and brain after single and repeated injections of lipopolysaccharide: multiplex quantification with path analysis. <i>Brain, Behavior, and Immunity</i> , 2011 , 25, 1637-48	16.6	166
491	Entry of blood-borne cytokines into the central nervous system: effects on cognitive processes. <i>NeuroImmunoModulation</i> , 2002 , 10, 319-27	2.5	166
490	Passage of amyloid beta protein antibody across the blood-brain barrier in a mouse model of Alzheimer's disease. <i>Peptides</i> , 2002 , 23, 2223-6	3.8	163
489	Site-directed antisense oligonucleotide decreases the expression of amyloid precursor protein and reverses deficits in learning and memory in aged SAMP8 mice. <i>Peptides</i> , 2000 , 21, 1769-75	3.8	162
488	Impaired transport of leptin across the blood-brain barrier in obesity is acquired and reversible. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003 , 285, E10-5	6	159
487	Pharmacological profiles of peptide drug candidates for the treatment of Alzheimer's disease. <i>Journal of Biological Chemistry</i> , 2003 , 278, 13905-11	5.4	151
486	Tumor necrosis factor-alpha: a neuromodulator in the CNS. <i>Neuroscience and Biobehavioral Reviews</i> , 1997 , 21, 603-13	9	150
485	Expression of TNF and the necessity of TNF receptors in bleomycin-induced lung injury in mice. <i>Experimental Lung Research</i> , 1998 , 24, 721-43	2.3	149
484	Aluminum-induced neurotoxicity: alterations in membrane function at the blood-brain barrier. <i>Neuroscience and Biobehavioral Reviews</i> , 1989 , 13, 47-53	9	149

483	The blood-brain barrier in neuroimmunology: Tales of separation and assimilation. <i>Brain, Behavior, and Immunity</i> , 2015 , 44, 1-8	16.6	145
482	HIV-1 viral proteins gp120 and Tat induce oxidative stress in brain endothelial cells. <i>Brain Research</i> , 2005 , 1045, 57-63	3.7	143
481	The S1 protein of SARS-CoV-2 crosses the blood-brain barrier in mice. <i>Nature Neuroscience</i> , 2021 , 24, 368-378	25.5	143
480	Neuroinflammation: a common pathway in CNS diseases as mediated at the blood-brain barrier. <i>NeuroImmunoModulation</i> , 2012 , 19, 121-30	2.5	142
479	Brain microvascular pericytes are immunoactive in culture: cytokine, chemokine, nitric oxide, and LRP-1 expression in response to lipopolysaccharide. <i>Journal of Neuroinflammation</i> , 2011 , 8, 139	10.1	142
478	Permeability of the blood-brain barrier to neurotrophins. <i>Brain Research</i> , 1998 , 788, 87-94	3.7	141
477	Characterization of blood-brain barrier permeability to PYY3-36 in the mouse. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003 , 306, 948-53	4.7	141
476	Quantitative proteomics analysis of specific protein expression and oxidative modification in aged senescence-accelerated-prone 8 mice brain. <i>Neuroscience</i> , 2004 , 126, 915-26	3.9	138
475	Permeability of the blood-brain barrier to amylin. <i>Life Sciences</i> , 1995 , 57, 1993-2001	6.8	138
474	Blood-borne interleukin-1 receptor antagonist crosses the blood-brain barrier. <i>Journal of Neuroimmunology</i> , 1994 , 55, 153-60	3.5	138
473	Blood to brain transport of interleukin links the immune and central nervous systems. <i>Life Sciences</i> , 1991 , 48, PL117-21	6.8	138
472	Neuroimmune Axes of the Blood-Brain Barriers and Blood-Brain Interfaces: Bases for Physiological Regulation, Disease States, and Pharmacological Interventions. <i>Pharmacological Reviews</i> , 2018 , 70, 278-314	22.5	134
471	Physiology and pathology of the blood-brain barrier: implications for microbial pathogenesis, drug delivery and neurodegenerative disorders. <i>Journal of NeuroVirology</i> , 1999 , 5, 538-55	3.9	134
470	Developmentally regulated mannose 6-phosphate receptor-mediated transport of a lysosomal enzyme across the blood-brain barrier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 12658-63	11.5	131
469	Angiotensin II modulates BBB permeability via activation of the AT(1) receptor in brain endothelial cells. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 640-7	7.3	130
468	Peptides crossing the blood-brain barrier: some unusual observations. <i>Brain Research</i> , 1999 , 848, 96-100	3.7	129
467	The many lives of leptin. <i>Peptides</i> , 2004 , 25, 331-8	3.8	125
466	Permeability of the blood-brain barrier to a novel satiety molecule nesfatin-1. <i>Peptides</i> , 2007 , 28, 2372-83	3.8	123

465	The neurotrophins and their receptors: structure, function, and neuropathology. <i>Neuroscience and Biobehavioral Reviews</i> , 1994 , 18, 143-59	9	123
464	Permeability of the blood-brain barrier to HIV-1 Tat. <i>Experimental Neurology</i> , 2005 , 193, 218-27	5.7	120
463	Brain uptake of the glucagon-like peptide-1 antagonist exendin(9-39) after intranasal administration. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004 , 309, 469-75	4.7	120
462	A Physiological Role for Amyloid- β Protein: Enhancement of Learning and Memory. <i>Journal of Alzheimer's Disease</i> , 2010 , 19, 441-449	4.3	119
461	Transmission of β synuclein-containing erythrocyte-derived extracellular vesicles across the blood-brain barrier via adsorptive mediated transcytosis: another mechanism for initiation and progression of Parkinson's disease?. <i>Acta Neuropathologica Communications</i> , 2017 , 5, 71	7.3	118
460	Permeability of the blood-brain barrier to neuropeptides: the case for penetration. <i>Psychoneuroendocrinology</i> , 1985 , 10, 385-99	5	118
459	Effect of diabetes mellitus on the permeability of the blood-brain barrier to insulin. <i>Peptides</i> , 1997 , 18, 1577-84	3.8	117
458	Intranasal Delivery of Proteins and Peptides in the Treatment of Neurodegenerative Diseases. <i>AAPS Journal</i> , 2015 , 17, 780-7	3.7	116
457	Leptin transport across the blood-brain barrier: implications for the cause and treatment of obesity. <i>Current Pharmaceutical Design</i> , 2001 , 7, 125-33	3.3	114
456	Drug delivery to the brain in Alzheimer's disease: consideration of the blood-brain barrier. <i>Advanced Drug Delivery Reviews</i> , 2012 , 64, 629-39	18.5	113
455	Effects of triglycerides, obesity, and starvation on ghrelin transport across the blood-brain barrier. <i>Peptides</i> , 2008 , 29, 2061-5	3.8	112
454	Passage of erythropoietic agents across the blood-brain barrier: a comparison of human and murine erythropoietin and the analog darbepoetin alfa. <i>European Journal of Pharmacology</i> , 2004 , 505, 93-101	5.3	112
453	Antisense directed at the A β region of APP decreases brain oxidative markers in aged senescence accelerated mice. <i>Brain Research</i> , 2004 , 1018, 86-96	3.7	112
452	The Transport Mechanism of Extracellular Vesicles at the Blood-Brain Barrier. <i>Current Pharmaceutical Design</i> , 2017 , 23, 6206-6214	3.3	112
451	Upregulation of the p75 but not the p55 TNF-alpha receptor mRNA after silica and bleomycin exposure and protection from lung injury in double receptor knockout mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1999 , 20, 825-33	5.7	111
450	Ghrelin-induced feeding is dependent on nitric oxide. <i>Peptides</i> , 2003 , 24, 913-8	3.8	110
449	Enhanced leptin transport across the blood-brain barrier by alpha 1-adrenergic agents. <i>Brain Research</i> , 2001 , 899, 209-17	3.7	109
448	Fate of leptin after intracerebroventricular injection into the mouse brain. <i>Endocrinology</i> , 1998 , 139, 4556-62	4.8	105

447	Decreased levels of PSD95 and two associated proteins and increased levels of BCL2 and caspase 3 in hippocampus from subjects with amnesic mild cognitive impairment: Insights into their potential roles for loss of synapses and memory, accumulation of Abeta, and neurodegeneration in a prodromal stage of Alzheimer's disease. <i>Journal of Neuroscience Research</i> , 2010 , 88, 469-77	4.4	103
446	Proteomic analysis of specific brain proteins in aged SAMP8 mice treated with alpha-lipoic acid: implications for aging and age-related neurodegenerative disorders. <i>Neurochemistry International</i> , 2005 , 46, 159-68	4.4	103
445	Effects of orexin-A on memory processing. <i>Peptides</i> , 2002 , 23, 1683-8	3.8	103
444	Unidirectional specific and modulated brain to blood transport of corticotropin-releasing hormone. <i>Neuroendocrinology</i> , 1996 , 63, 338-48	5.6	102
443	Transport of human immunodeficiency virus type 1 pseudoviruses across the blood-brain barrier: role of envelope proteins and adsorptive endocytosis. <i>Journal of Virology</i> , 2001 , 75, 4681-91	6.6	101
442	Alpha synuclein is transported into and out of the brain by the blood-brain barrier. <i>Peptides</i> , 2014 , 62, 197-202	3.8	99
441	Intrathecal delivery of protein therapeutics to the brain: a critical reassessment. <i>Pharmacology & Therapeutics</i> , 2014 , 144, 114-22	13.9	99
440	Brain meets body: the blood-brain barrier as an endocrine interface. <i>Endocrinology</i> , 2012 , 153, 4111-9	4.8	99
439	CNS tau efflux via exosomes is likely increased in Parkinson's disease but not in Alzheimer's disease. <i>Alzheimeris and Dementia</i> , 2016 , 12, 1125-1131	1.2	99
438	Peroxisome proliferator-activated receptor-gamma-mediated positive energy balance in the rat is associated with reduced sympathetic drive to adipose tissues and thyroid status. <i>Endocrinology</i> , 2008 , 149, 2121-30	4.8	97
437	Saturable transport of peptides across the blood-brain barrier. <i>Life Sciences</i> , 1987 , 41, 1319-38	6.8	97
436	Gut reactions: How the blood-brain barrier connects the microbiome and the brain. <i>Experimental Biology and Medicine</i> , 2018 , 243, 159-165	3.7	97
435	Passage of peptides across the blood-brain barrier: pathophysiological perspectives. <i>Life Sciences</i> , 1996 , 59, 1923-43	6.8	95
434	Passage of human amyloid beta-protein 1-40 across the murine blood-brain barrier. <i>Life Sciences</i> , 1994 , 55, 1643-50	6.8	95
433	Carrier-mediated transport of vasopressin across the blood-brain barrier of the mouse. <i>Journal of Neuroscience Research</i> , 1987 , 18, 326-32	4.4	95
432	Oxidative modification to LDL receptor-related protein 1 in hippocampus from subjects with Alzheimer disease: implications for A β accumulation in AD brain. <i>Free Radical Biology and Medicine</i> , 2010 , 49, 1798-803	7.8	93
431	Effects of N-acetylcysteine amide (NACA), a novel thiol antioxidant against glutamate-induced cytotoxicity in neuronal cell line PC12. <i>Brain Research</i> , 2005 , 1056, 132-8	3.7	93
430	Partial saturation and regional variation in the blood-to-brain transport of leptin in normal weight mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000 , 278, E1158-65	6	92

429	Is obesity a disease of the blood-brain barrier? Physiological, pathological, and evolutionary considerations. <i>Current Pharmaceutical Design</i> , 2003 , 9, 801-9	3.3	92
428	Extra virgin olive oil improves learning and memory in SAMP8 mice. <i>Journal of Alzheimeris Disease</i> , 2012 , 28, 81-92	4.3	91
427	HIV proteins (gp120 and Tat) and methamphetamine in oxidative stress-induced damage in the brain: potential role of the thiol antioxidant N-acetylcysteine amide. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 1388-98	7.8	91
426	Leptin transport across the blood-brain barrier of the Koletsky rat is not mediated by a product of the leptin receptor gene. <i>Brain Research</i> , 2002 , 950, 130-6	3.7	91
425	Testing the neurovascular hypothesis of Alzheimer's disease: LRP-1 antisense reduces blood-brain barrier clearance, increases brain levels of amyloid-beta protein, and impairs cognition. <i>Journal of Alzheimeris Disease</i> , 2009 , 17, 553-70	4.3	91
424	A novel antioxidant N-acetylcysteine amide prevents gp120- and Tat-induced oxidative stress in brain endothelial cells. <i>Experimental Neurology</i> , 2006 , 201, 193-202	5.7	90
423	A brain-to-blood carrier-mediated transport system for small, N-tyrosinated peptides. <i>Pharmacology Biochemistry and Behavior</i> , 1984 , 21, 943-6	3.9	88
422	Pegylated leptin antagonist is a potent orexigenic agent: preparation and mechanism of activity. <i>Endocrinology</i> , 2009 , 150, 3083-91	4.8	86
421	Topiramate treatment protects blood-brain barrier pericytes from hyperglycemia-induced oxidative damage in diabetic mice. <i>Endocrinology</i> , 2012 , 153, 362-72	4.8	85
420	The blood-brain barrier as a cause of obesity. <i>Current Pharmaceutical Design</i> , 2008 , 14, 1606-14	3.3	85
419	Studies of the slow bidirectional transport of iron and transferrin across the blood-brain barrier. <i>Brain Research Bulletin</i> , 1988 , 21, 881-5	3.9	85
418	The blood-brain barrier in neuroAIDS. <i>Current HIV Research</i> , 2006 , 4, 259-66	1.3	84
417	Permeability of the blood-brain barrier to soluble cytokine receptors. <i>NeuroImmunoModulation</i> , 1995 , 2, 161-5	2.5	84
416	Triglycerides cross the blood-brain barrier and induce central leptin and insulin receptor resistance. <i>International Journal of Obesity</i> , 2018 , 42, 391-397	5.5	83
415	Starvation and triglycerides reverse the obesity-induced impairment of insulin transport at the blood-brain barrier. <i>Endocrinology</i> , 2008 , 149, 3592-7	4.8	83
414	Blood to brain and brain to blood passage of native horseradish peroxidase, wheat germ agglutinin, and albumin: pharmacokinetic and morphological assessments. <i>Journal of Neurochemistry</i> , 1994 , 62, 2404-19	6	83
413	Aluminum complexing enhances amyloid beta protein penetration of blood-brain barrier. <i>Brain Research</i> , 2006 , 1116, 215-21	3.7	83
412	Transport of Extracellular Vesicles across the Blood-Brain Barrier: Brain Pharmacokinetics and Effects of Inflammation. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	82

411	Blood-brain barrier permeability to ebitatide and TNF in acute spinal cord injury. <i>Experimental Neurology</i> , 1997 , 146, 367-73	5.7	81
410	Frailty and the aging male. <i>Aging Male</i> , 2005 , 8, 135-40	2.1	81
409	Permeability of the murine blood-brain barrier to some octapeptide analogs of somatostatin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 6762-6	11.5	81
408	Lipopolysaccharide impairs amyloid efflux from brain: altered vascular sequestration, cerebrospinal fluid reabsorption, peripheral clearance and transporter function at the blood-brain barrier. <i>Journal of Neuroinflammation</i> , 2012 , 9, 150	10.1	80
407	Efflux of human and mouse amyloid beta proteins 1-40 and 1-42 from brain: impairment in a mouse model of Alzheimer's disease. <i>Neuroscience</i> , 2003 , 121, 487-92	3.9	80
406	Delivery of galanin-like peptide to the brain: targeting with intranasal delivery and cyclodextrins. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 325, 513-9	4.7	79
405	Anti-amyloid beta protein antibody passage across the blood-brain barrier in the SAMP8 mouse model of Alzheimer's disease: an age-related selective uptake with reversal of learning impairment. <i>Experimental Neurology</i> , 2007 , 206, 248-56	5.7	79
404	Central Nervous System Delivery of Intranasal Insulin: Mechanisms of Uptake and Effects on Cognition. <i>Journal of Alzheimer's Disease</i> , 2015 , 47, 715-28	4.3	78
403	N-Acetylcysteine amide protects against methamphetamine-induced oxidative stress and neurotoxicity in immortalized human brain endothelial cells. <i>Brain Research</i> , 2009 , 1275, 87-95	3.7	77
402	The effects of group and individual animal-assisted therapy on loneliness in residents of long-term care facilities. <i>Anthrozoos</i> , 2005 , 18, 396-408	2.4	77
401	Interleukin-1 alpha in blood has direct access to cortical brain cells. <i>Neuroscience Letters</i> , 1993 , 163, 41-43	3.3	77
400	Isolation of peptide transport system-6 from brain endothelial cells: therapeutic effects with antisense inhibition in Alzheimer and stroke models. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 411-22	7.3	76
399	Loss of appendicular muscle mass and loss of muscle strength in young postmenopausal women. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007 , 62, 330-5	6.4	76
398	Role of the Blood-Brain Barrier in Central Nervous System Insulin Resistance. <i>Frontiers in Neuroscience</i> , 2019 , 13, 521	5.1	75
397	Lipids and cognition. <i>Journal of Alzheimer's Disease</i> , 2010 , 20, 737-47	4.3	75
396	The blood-brain barrier: connecting the gut and the brain. <i>Regulatory Peptides</i> , 2008 , 149, 11-4		73
395	Interleukin-2 does not cross the blood-brain barrier by a saturable transport system. <i>Brain Research Bulletin</i> , 1994 , 34, 103-9	3.9	73
394	Adiponectin does not cross the blood-brain barrier but modifies cytokine expression of brain endothelial cells. <i>Diabetes</i> , 2006 , 55, 141-7	0.9	72

393	A physiological role for amyloid-beta protein:enhancement of learning and memory. <i>Journal of Alzheimeris Disease</i> , 2010 , 19, 441-9	4.3	71
392	Inflammation-induced dysfunction of the low-density lipoprotein receptor-related protein-1 at the blood-brain barrier: protection by the antioxidant N-acetylcysteine. <i>Brain, Behavior, and Immunity</i> , 2012 , 26, 1085-94	16.6	70
391	Opposite direction of transport across the blood-brain barrier for Tyr-MIF-1 and MIF-1: comparison with morphine. <i>Peptides</i> , 1994 , 15, 23-9	3.8	70
390	Lipid peroxidation in brain during aging in the senescence-accelerated mouse (SAM). <i>Neurobiology of Aging</i> , 2007 , 28, 1170-8	5.6	69
389	Polypeptide point modifications with fatty acid and amphiphilic block copolymers for enhanced brain delivery. <i>Bioconjugate Chemistry</i> , 2005 , 16, 793-802	6.3	69
388	Adsorptive endocytosis of HIV-1gp120 by blood-brain barrier is enhanced by lipopolysaccharide. <i>Experimental Neurology</i> , 1999 , 156, 165-71	5.7	69
387	Effect of dietary n-3 polyunsaturated fatty acids on brain lipid fatty acid composition, learning ability, and memory of senescence-accelerated mouse. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2008 , 63, 1153-60	6.4	68
386	HIV-1 protein gp120 crosses the blood-brain barrier: role of adsorptive endocytosis. <i>Life Sciences</i> , 1997 , 61, PL119-25	6.8	67
385	The effects of high fat diets on the blood-brain barrier transport of leptin: failure or adaptation?. <i>Physiology and Behavior</i> , 2006 , 88, 244-8	3.5	67
384	The blood-brain barrier as a regulatory interface in the gut-brain axes. <i>Physiology and Behavior</i> , 2006 , 89, 472-6	3.5	67
383	Mannose 6-phosphate receptor-mediated transport of sulfamidase across the blood-brain barrier in the newborn mouse. <i>Molecular Therapy</i> , 2008 , 16, 1261-6	11.7	66
382	Highly active antiretroviral therapy drug combination induces oxidative stress and mitochondrial dysfunction in immortalized human blood-brain barrier endothelial cells. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 801-10	7.8	64
381	Leucine competes with kynurenine for blood-to-brain transport and prevents lipopolysaccharide-induced depression-like behavior in mice. <i>Molecular Psychiatry</i> , 2019 , 24, 1523-1532	15.1	63
380	Testosterone modulates gene expression pathways regulating nutrient accumulation, glucose metabolism and protein turnover in mouse skeletal muscle. <i>Journal of Developmental and Physical Disabilities</i> , 2011 , 34, 55-68		63
379	Primary adrenal hyperplasia: a new subset of primary hyperaldosteronism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1984 , 58, 783-5	5.6	63
378	Are the extracellular [correction of extracelluar] pathways a conduit for the delivery of therapeutics to the brain?. <i>Current Pharmaceutical Design</i> , 2004 , 10, 1365-70	3.3	63
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